

CBS/CBSQ

Column Bases



This product is preferable to similar connectors because of (a) easier installation, (b) higher loads, (c) lower installed cost, or a combination of these features.

The CBS column base installs with bolts and provides tested capacity. The 1" standoff (included) meets code requirements for structural posts installed in basements or exposed to weather or water splash. The CBSQ uses Strong-Drive® SDS Heavy-Duty Connector screws, which allow for fast installation, reduced reveal and high capacity, and provides a greater net section area of the column compared to bolts.

Material: See table

Finish: Galvanized; available in HDG

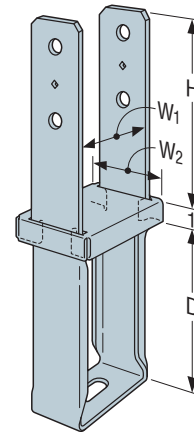
Installation:

- Use all specified fasteners; see General Notes.
- For CBS, install with two bolts.
- For CBSQ, install ¼" x 2" Strong-Drive SDS Heavy-Duty Connector screws, which are provided with the column base. (Lag screws will not achieve the same load.)
- For full loads, a minimum of 3" side cover shall be provided.
- Post bases do not provide adequate resistance to prevent members from rotating about the base and therefore are not recommended for non-top-supported installations (such as fences or unbraced carports).

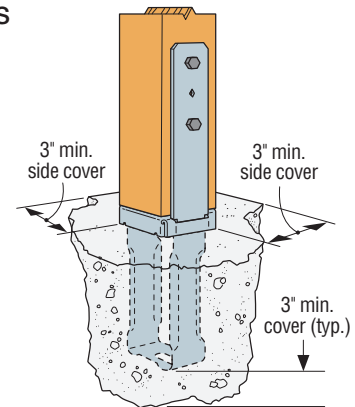
Ordering:

- To order the CBSQ with screws, specify CBSQ-SDS2
- To order without screws, specify CBSQ

Codes: See p. 12 for Code Reference Key Chart



CBS



Typical CBS Installation

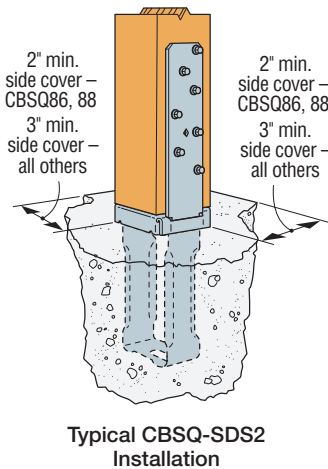
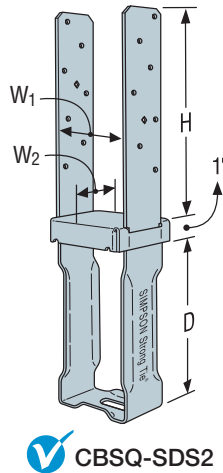
These products are available with additional corrosion protection. For more information, see p. 15.

Model No.	Nominal Column Size	Material		Dimensions (in.)				Machine Bolts		Allowable Loads (DF/SP)			Code Ref.
		Base (ga.)	Strap (ga. x Width)	W ₁	W ₂	D	H	Qty.	Dia. (in.)	Uncracked	Cracked	Download	
										Uplift	Uplift		
Wind and Seismic Design Category A&B													
CBS44	4x4	12	10 ga. x 2¼	3⅝	3½	7⅞	8¾	2	⅝	5,390	4,650	10,975	—
CBS46	4x6	12	10 ga. x 3	3⅝	5⅝	7⅞	8⅞	2	⅝	5,390	4,650	14,420	
CBS66	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	2	⅝	4,375	3,060	14,420	
Seismic Design Category C–F													
CBS44	4x4	12	10 ga. x 2¼	3⅝	3½	7⅞	8¾	2	⅝	5,390	4,070	10,975	—
CBS46	4x6	12	10 ga. x 3	3⅝	5⅝	7⅞	8⅞	2	⅝	5,390	4,070	14,420	
CBS66	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	2	⅝	3,830	2,680	14,420	

1. Loads may not be increased for duration of load.
2. For higher downloads, pack grout solid under 1" standoff plate before installation. Base download on column or concrete, according to the code.
3. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
4. To obtain LRFD values, multiply ASD seismic load values by 1.4 and wind load values by 1.67 (1.6 for 2012 IBC).
5. In accordance with IBC, Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
6. Downloads shall be reduced where limited by capacity of the post.
7. Designer is responsible for concrete design.
8. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.

CBSQ

Column Bases (cont.)



These products are available with additional corrosion protection. For more information, see p. 15.

For stainless-steel fasteners, see p. 21.

Model No.	Nominal Column Size	Material		Dimensions (in.)				Fasteners	Allowable Loads DF/SP			Code Ref.
		Base (ga.)	Strap (ga. x Width)	W ₁	W ₂	D	H		Uncracked	Cracked	Download	
									Uplift	Uplift		
Wind and Seismic Design Category A&B												
CBSQ44-SDS2	4x4	12	10 ga. x 2¼	3⅝	3½	7⅛	8¾	(14) ¼" x 2" SDS	5,390	4,650	10,975	IBC, FL, LA
CBSQ46-SDS2	4x6	12	10 ga. x 3	3⅝	5⅝	7⅜	8⅞	(14) ¼" x 2" SDS	5,390	4,650	14,420	
CBSQ66-SDS2	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	(14) ¼" x 2" SDS	4,375	3,060	14,420	
CBSQ86-SDS2	6x8	12	7 ga. x 3	7½	5⅝	6⅞	8⅞	(12) ¼" x 2" SDS	3,815	2,670	20,915	
CBSQ88-SDS2	8x8	12	7 ga. x 3	7½	7⅝	6⅞	8⅞	(12) ¼" x 2" SDS	3,815	2,670	22,225	
Seismic Design Category C–F												
CBSQ44-SDS2	4x4	12	10 ga. x 2¼	3⅝	3½	7⅛	8¾	(14) ¼" x 2" SDS	5,390	4,070	10,975	IBC, FL, LA
CBSQ46-SDS2	4x6	12	10 ga. x 3	3⅝	5⅝	7⅜	8⅞	(14) ¼" x 2" SDS	5,390	4,070	14,420	
CBSQ66-SDS2	6x6	12	10 ga. x 3	5½	5½	6⅞	8¾	(14) ¼" x 2" SDS	3,830	2,680	14,420	
CBSQ86-SDS2	6x8	12	7 ga. x 3	7½	5⅝	6⅞	8⅞	(12) ¼" x 2" SDS	3,340	2,335	20,915	
CBSQ88-SDS2	8x8	12	7 ga. x 3	7½	7⅝	6⅞	8⅞	(12) ¼" x 2" SDS	3,340	2,335	22,225	

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2. For higher downloads, pack grout solid under 1" standoff plate before installation. Base download on column or concrete, according to the code.
3. Concrete shall have a minimum compressive strength of $f'_c = 2,500$ psi.
4. To obtain LRFD values, multiply ASD seismic load values by 1.4 and wind load values by 1.67 (1.6 for 2012 IBC).
5. In accordance with IBC, Section 1613.1, detached one- and two-family dwellings in Seismic Design Category (SDC) C may use "Wind and SDC A&B" allowable loads.
6. Downloads shall be reduced where limited by capacity of the post.
7. Designer is responsible for concrete design.
8. Structural composite lumber columns have sides that show either the wide face or the edges of the lumber strands/veneers known as the narrow face. Values in the tables reflect installation into the wide face. See technical bulletin T-C-SCLCLM at strongtie.com for load reductions resulting from narrow-face installations.
9. **Fasteners:** SD and SDS screws are Simpson Strong-Tie® Strong-Drive® screws. See pp. 21–22 for fastener information.